

ELECTROFUSION FITTINGS

1. FEATURES

Manufacturer	NUPIGECO SpA Via Stefano Ferrario , snc-Z.I. Sud-Ovest Loc. Sacconago-21052 Busto Arsizio (VA) - ITALY
Brand name	ELOFIT
Type of accessory	COUPLER, TEE, REDUCED TEE, REDUCER, CAP, 45°ELBOW, 90°ELBOW, BRANCH SADDLE, TAPPING TEE
Sizes	1/2" to 30" IPS – SDR11 1/2" to 1" CTS – SDR11 8" to 36" – SDR17
Resin	PE3408 / PE4710 / PE100 BLACK VIRGIN HDPE HDB 1600 psi , 73°F (Ref.Std. ASTM D2837) Cell Classification 445574C (Ref.Std. ASTM D3350) NSF 61 Listed
Reference Standards	ASTM D2513 Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings. ASTM F1055 Standard Specification For Electrofusion Type Polyethylene Fittings For Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene (Pex) Pipe and Tubing. ASTM D3350 Standard Specification for Polyethylene Plastics Pipe and Fittings Materials. AWWA C901 AWWA Standard for Polyethylene (PE) Pressure Pipe and Tubing, 1/2 In. (13 mm) through 3 In. (76 mm), for Water Service. FM 1613 Polyethylene (PE) Pipe and Fittings For Underground Fire Protection ANSI/NSF 14 Plastics piping system components and related materials PPI TR-19 Chemical Resistance of Thermoplastics Piping Materials.

1/2

2. APPLICATION

Use	ON PRESSURE PIPE AND FITTINGS CONFORMING TO ASTM F714, D2513, D3035
Compatibility	NATURAL GAS, WATER, CHEMICALS (Ref. PPI TR-19)
Operating temperature	MAX 140°F DERATING FACTORS FOR PRESSURE MUST BE CONSIDERED WHEN TEMPERATURE IS ABOVE 73°F
Pressure rating	DEPENDS ON FLUID, SDR, DESIGN FACTOR - REFER TO TABLE

PRODUCT SPECIFICATION



PE4710 Fittings
For Water And Gas

PRESSURE RATING (psi) at 73°F				
SDR	Water (0.63 DSF)	Water (0.5 DSF)	Gas (0.32 DSF)	Gas (0.4 DSF)
11	200	160	100	125
13.5	160	125	80	100
17	125	100	65	80

3. INSTALLATION

The fittings referred in the present Product Specification are intended to be installed by electrofusion to pipes and fittings. Refer to ASTM F1290 and to Your Company's procedures for installation. Fusion jointing must always be performed by qualified persons, through the use of conforming equipment. Pressure testing after installation must be executed according with ASTM F2164 or Company's procedures.

Weldability	ELECTROFUSION WITH PE RESINS CONFORMING TO ASTM D3350
Fusion range	SDR11, SDR13.5, SDR17
Installation conditions	AMBIENT TEMPERATURE: 23°F to 104°F
Reference Standards	ASTM F1290 Standard Practice for Electrofusion Joining Polyolefin Pipe and Fittings. ASTM F2164 Standard Practice for Field Leak Testing of Polyethylene (PE) Pressure Piping Systems Using Hydrostatic Pressure

4. PRODUCT TESTING

CHARACTERISTIC	TEST METHOD	REQUIREMENT
Dimensions, aspect, marking	ASTM D2122	Conformity with ASTM D2513 and F1055
Hydrostatic strength	ASTM D1598	Failure > 170 h, 80°C, 670 psi (hoop stress) Failure > 1000 h, 80°C, 580 psi (hoop stress)
Pressure burst test	ASTM D1599	Failure after 60-70 s, 2520 psi (hoop stress)

5. STORAGE AND WARRANTY

Store in a dry place, away from direct sun exposure and UV rays, with temperature in the range 0°F – 120°F. Avoid shocks and stresses, avoid contamination with water and chemicals. Remove the fitting from packaging immediately before installation.

Fittings are guaranteed in stock for 10 years before installation, if stored properly.

THIS SPECIFICATION SUPERCEDES ALL PREVIOUS PRODUCT SPECIFICATIONS.

M001EF	0	Release	10/29/12	M. Rossi TECHNICAL MANAGER	R. Barbera QUALITY MANAGER	B. Wheeler PRODUCT RESP.
DOC.	REV.	DESCRIPTION	DATE	AUT.	VERIF.	APPROV.



1511 Superior Way | Houston, TX 77039
ph: 281-590-4471 | fax: 281-590-5268
info@nupiamericas.com | www.nupiamericas.com